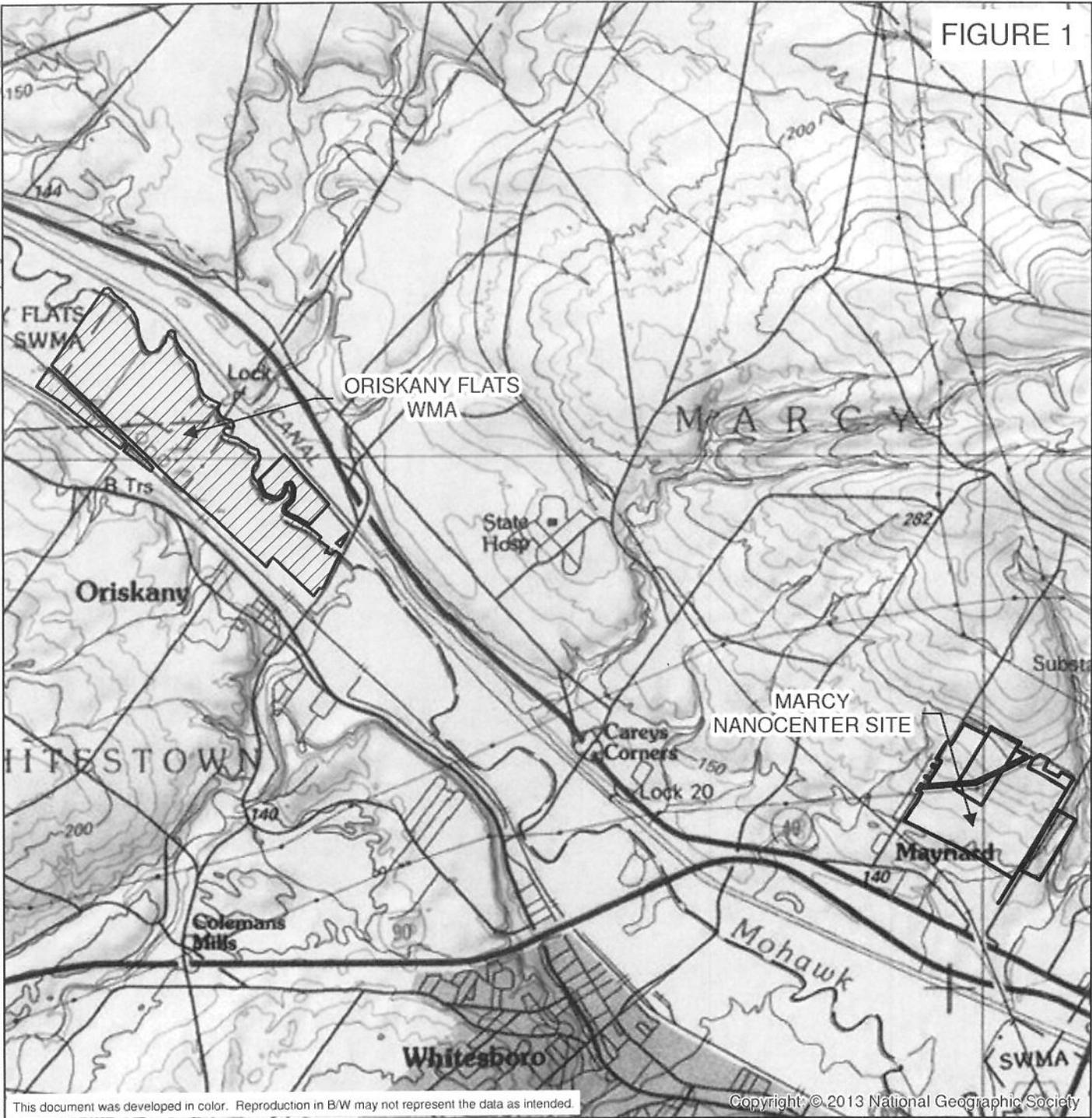


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FIGURE 1



This document was developed in color. Reproduction in B/W may not represent the data as intended.

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ADAPTED FROM: ORISKANY AND SOUTH TRENTON, NY USGS QUADRANGLE



MOHAWK VALLEY EDGE  
 MARCY NANO CENTER  
 JOINT PERMIT APPLICATION  
 MARCY, NEW YORK

LEGEND

-  SITE MITIGATION / NYSDEC WILDLIFE MANAGEMENT AREA (WM)
-  NANO CENTER SITE

SITE LOCATION



Mohawk Valley Edge  
 USACE #2001-00890 (Public Notice)  
 Oneida County, New York  
 South Trenton, NY Quad  
 Sheet 1 of 23

Table 1a. Federal wetland/stream impacts – Marcy Nanocenter Site, Marcy, New York.

Wetland/ Stream Lat./Lon.	Total Wetland Acres (ac) / Stream Length Feet (lf)	USACE Jurisdiction	Wet Meadow Affected (ac)	Emergent Marsh Affected (ac)	Shrub Swamp Affected (ac)	Forested Wetland Affected (ac)	Total Area Affected (Acres/lf)	USACE Classification <sup>1</sup>
OBG W-1 43°8'9.66"N/ 75°14'30.26"W	2.38	Section 404 non-tidal, tributary to Barge Canal	0.0	0.11	0.0	0.0	0.11	<b>High</b> <ul style="list-style-type: none"> <li>■ habitat</li> <li>■ groundwater discharge</li> <li>■ storm water retention</li> <li>■ toxicant storage</li> </ul>
OBGW-2 43°8'11.69"N/ 75°14'28.25"W	1.60	"	0.18	0.21	0.20	0.0	0.59	<b>High</b> <ul style="list-style-type: none"> <li>■ habitat</li> <li>■ groundwater discharge</li> <li>■ storm water retention</li> <li>■ toxicant storage</li> </ul>
OBGW-3 43°8'23.86"N/ 75°14'19.94"W	1.03	"	0.64	0.39	0.0	0.0	1.03	<b>Low</b> <ul style="list-style-type: none"> <li>■ impact from agriculture</li> </ul>
OBGW-3a 43°8'21.26"N/ 75°14'26.66"W	0.15	"	0.15	0.0	0.0	0.0	0.15	<b>Low</b> <ul style="list-style-type: none"> <li>■ impact from agriculture</li> </ul>
OBGW-4 43°8'35.98"N/ 75°14'20.63"W	0.38	"	0.0	0.1	0.11	0.17	0.38	<b>Low</b> <ul style="list-style-type: none"> <li>■ impact from agriculture</li> </ul>
OBGW-5 43°8'25.51"N/ 75°14'34.64"W	4.18	"	0.23	0.0	0.34	3.23	3.8	<b>High</b> <ul style="list-style-type: none"> <li>■ habitat</li> <li>■ sediment removal</li> <li>■ nutrient &amp; toxicant retention</li> </ul>
OBGW-6 43°8'21.55"N/ 75°14'30.71"W	0.82	"	0.07	0.0	0.29	0.46	0.82	<b>Medium</b> <ul style="list-style-type: none"> <li>■ habitat</li> <li>■ floodwater retention</li> <li>■ sediment retention</li> </ul>
OBGW-7 43°8'32.51"N/ 75°14'37.39"W	1.63	"	0.00	0.11	0.24	1.28	1.63	<b>Medium</b> <ul style="list-style-type: none"> <li>■ habitat</li> </ul>
OBGW-8 43°8'32.38"N/ 75°14'45.12"W	16.49 <sup>2</sup>	"	0.05	0.27	1.35	1.02	2.69	<b>High</b> <ul style="list-style-type: none"> <li>■ ground water discharge</li> <li>■ habitat</li> </ul>
OBGW-9 43°8'20.25"N/ 75°14'40.18"W	0.86	"	0.06	0.0	0.13	0.67	0.86	<b>Medium</b> <ul style="list-style-type: none"> <li>■ drainage to high quality wetland</li> <li>■ habitat</li> </ul>
OBGW-10 43°8'39.11"N/ 75°14'58.86"W	see OBGW-8	"	-	-	-	-	-	(see OBGW-8)

Wetland/ Stream Lat./Lon.	Total Wetland Acres (ac) / Stream Length Feet (lf)	USACE Jurisdiction	Wet Meadow Affected (ac)	Emergent Marsh Affected (ac)	Shrub Swamp Affected (ac)	Forested Wetland Affected (ac)	Total Area Affected (Acres/lf)	USACE Classification <sup>1</sup>
OBGW-11 43°8'25.01"N/ 75°15'14.37"W	1.77	"	0.0	0.0	0.0	0.0	0.0	<b>High</b> ■ habitat ■ sediment & toxicant retention
OBGW-12 43°8'55.19"N/ 75°14'52.38"W	0.66	"	0.0	0.0	0.0	0.0	0.0	<b>Low</b> ■ impact from agriculture ■ water retention ■ nutrient filtration
OBGW-13 43°8'55.33"N/ 75°14'49.48"W	0.13	"	0.0	0.0	0.0	0.0	0.0	<b>Low</b> ■ impact from agriculture ■ water retention ■ nutrient filtration
OBGW-13a 43°8'53.34"N/ 75°14'52.27"W	0.09	"	0.0	0.0	0.0	0.0	0.0	<b>Low</b> ■ impact from agriculture ■ water retention ■ nutrient filtration
OBGW-14 43°8'36.87"N/ 75°15'2.40"W	see OBGW-8	"	-	-	-	-	-	(see OBGW-8)
OBGW-15 43°8'48.24"N/ 75°14'59.30"W	0.67	"	0.0	0.0	0.0	0.0	0.0	<b>Medium</b> ■ drainage to high quality wetland
OBGW-16 43°8'47.68"N/ 75°14'54.67"W	0.51	"	0.0	0.0	0.0	0.0	0.0	<b>High</b> ■ habitat
OBGW-17 43°8'40.49"N/ 75°14'18.55"W	0.16	"	0.0	0.06	0.02	0.0	0.08	<b>Low</b> ■ impact from agriculture
OBGW-18 43°8'41.06"N/ 75°14'30.51"W	0.21	"	0.19	0.02	0.0	0.0	0.21	<b>Low</b> ■ impact from agriculture
WLF-1 43°8'35.80"N/ 75°14'44.17"W	0.59	"	0.0	0.11	0.0	0.42	0.53	<b>Medium</b> ■ habitat ■ floodwater retention ■ sediment retention
WLF-2 43°8'39.69"N/ 75°14'44.12"W	0.05	"	0.0	0.0	0.0	0.0	0.0	<b>Low</b> ■ impact from agriculture
WLF-3 43°8'37.07"N/ 75°14'46.69"W	0.40	"	0.0	0.04	0.0	0.0	0.04	<b>Medium</b> ■ habitat
WLF-4 43°8'38.30"N/ 75°14'51.68"W	0.15	"	0.0	0.0	0.0	0.0	0.0	<b>Medium</b> ■ drainage to high quality wetland ■ habitat

Wetland/ Stream Lat./Lon.	Total Wetland Acres (ac) / Stream Length Feet (lf)	USACE Jurisdiction	Wet Meadow Affected (ac)	Emergent Marsh Affected (ac)	Shrub Swamp Affected (ac)	Forested Wetland Affected (ac)	Total Area Affected (Acres/lf)	USACE Classification <sup>1</sup>
WLF-5 43°8'38.74"N/ 75°14'47.70"W	0.10	"	0.0	0.0	0.0	0.0	0.0	<b>Medium</b> ■ habitat ■ sediment retention
WLF-6 43°8'41.23"N/ 75°14'51.24"W	0.19	"	0.0	0.0	0.0	0.0	0.0	<b>Medium</b> ■ habitat ■ sediment retention
LW-1 43°8'39.18"N/ 75°14'11.01"W	0.44	"	0.0	0.0	0.0	0.0	0.0	<b>Medium</b> ■ habitat
LW-2 43°8'41.15"N/ 75°14'15.64"W	0.67	"	0.02	0.0	0.0	0.0	0.02	<b>Medium</b> ■ habitat
LW-3 43°8'41.99"N/ 75°14'18.43"W	2.7	"	0.0	0.0	0.0	0.0	0.0	<b>Medium</b> ■ habitat ■ floodwater retention ■ sediment retention
LW-4 43°8'39.61"N/ 75°14'6.56"W	0.07	"	0.0	0.0	0.0	0.0	0.0	<b>Low</b> ■ impact from residences ■ water retention ■ nutrient filtration
W-B 43°8'18.06"N/ 75°14'17.25"W	0.16	"	0.16	0.0	0.0	0.0	0.16	<b>Low</b> ■ floodwater retention ■ sediment retention
W-C 43°8'31.03"N/ 75°14'06.42"W	0.23	"	0.0	0.0	0.0	0.0	0.0	<b>Medium</b> ■ habitat ■ floodwater retention ■ sediment retention
W-D 43°8'25.28"N/ 75°14'10.45"W	0.42 ac	"	0.0	0.0	0.0	0.0	0.0	<b>Medium</b> ■ habitat ■ floodwater retention ■ sediment retention
IS-1 43° 8'14.66"N/ 75°14'22.61"W	731	Section 404 non-tidal, tributary to Barge Canal					575	<b>Intermittent</b>
IS-2 43° 8'9.49"N/ 75°14'35.49"W	332	"					60	<b>Intermittent</b>
IS-3 43° 8'18.47"N/ 75°14'32.57"W	1275	"					940	<b>Intermittent</b>

Mohawk Valley EDGE  
 USACE #2001-00890 (Public Notice)  
 Oneida County, New York  
 South Trenton, NY Quad  
 Sheet 4 of 23

Wetland/ Stream Lat./Lon.	Total Wetland Acres (ac) / Stream Length Feet (lf)	USACE Jurisdiction	Wet Meadow Affected (ac)	Emergent Marsh Affected (ac)	Shrub Swamp Affected (ac)	Forested Wetland Affected (ac)	Total Area Affected (Acres/lf)	USACE Classification <sup>1</sup>
IS-4 43° 8'35.88"N/ 75°14'21.16"W	1025	"					1025	<i>Intermittent</i>
IS-5 43° 8'34.03"N/ 75°14'29.59"W	1015	"					1015	<i>Intermittent</i>
IS-6 43° 8'28.07"N/ 75°14'42.27"W	1955	"					1305	<i>Intermittent</i>
IS-7 43° 8'25.06"N/ 75°14'50.59"W	935	"					935	<i>Intermittent</i>
IS-8 43° 8'38.02"N/ 75°14'34.30"W	480	"					480	<i>Intermittent</i>
IS-9 43° 8'55.13"N/ 75°14'51.96"W	743	"					0	<i>Intermittent</i>
IS-10 43° 8'45.73"N/ 75°15'12.72"W	1426	"					0	<i>Intermittent</i>
ISL-1 43° 8'34.84"N/ 75°14'6.62"W	650	"					75	<i>Intermittent</i>
ISL-2 43° 8'22.63"N/ 75°14'12.29"W	300	"					0	<i>Intermittent</i>
ES-1 43° 8'23.10"N/ 75°14'17.03"W	175	"					175	<i>Ephemeral</i>
ES-2 43° 8'32.78"N/ 75°14'13.18"W	527	"					527	<i>Ephemeral</i>
ES-3 43° 8'33.18"N/ 75°14'16.17"W	295	"					295	<i>Ephemeral</i>
ES-4 43° 8'25.37"N/ 75°14'22.74"W	510	"					510	<i>Ephemeral</i>
ES-5 43° 8'20.18"N/ 75°14'24.69"W	219	"					219	<i>Ephemeral</i>
ES-6 43° 8'13.43"N/ 75°14'35.98"W	705	"					705	<i>Ephemeral</i>
ES-7 43° 8'15.87"N/ 75°14'40.49"W	585	"					585	<i>Ephemeral</i>
ES-8 43° 8'26.16"N/ 75°14'39.62"W	365	"					365	<i>Ephemeral</i>

Wetland/ Stream Lat./Lon.	Total Wetland Acres (ac) / Stream Length Feet (lf)	USACE Jurisdiction	Wet Meadow Affected (ac)	Emergent Marsh Affected (ac)	Shrub Swamp Affected (ac)	Forested Wetland Affected (ac)	Total Area Affected (Acres/lf)	USACE Classification <sup>1</sup>
ES-9 43° 8'33.22"N/ 75°14'52.69"W	514	"					514	<i>Ephemeral</i>
ES-10 43° 8'33.89"N/ 75°14'55.94"W	970	"					970	<i>Ephemeral</i>
ES-11 43° 8'44.09"N/ 75°14'58.49"W	273	"					273	<i>Ephemeral</i>
ES-12 43° 8'26.33"N/ 75°15'15.37"W	315	"					315	<i>Ephemeral</i>
ESF-1 43° 8'39.78"N/ 75°14'39.19"W	260	"					165	<i>Ephemeral</i>
ESF-2 43° 8'36.42"N/ 75°14'39.31"W	173	"					173	<i>Ephemeral</i>
ESF-3 43° 8'40.99"N/ 75°14'51.34"W	129	"					0	<i>Ephemeral</i>
<b>Totals</b>								
Wetlands	40± ac		1.75	1.42	2.68	7.25	13.1 <sup>3</sup>	
Inter. stream	10,867 lf						6,410	
Ephem. stream	6,015 lf						4,092	

Notes:

<sup>1</sup>United States Army Corps of Engineers Wetland Functions and Values Classification (September 2002) and O'Brien & Gere's qualitative assessment of wetlands on Farmers (WLF) and Loin (WL) properties.

<sup>2</sup> Represents total acreage for OBGW-8, 10 and 14.

<sup>3</sup>Potential impacts (0.36 acres temporary, 0.001 acres [51 sf] permanent) relate to the relocation of National Grid's existing Porter terminal (115 kV electrical transmission line); estimated impact is based on temporary access requirements and construction of one tower location (# 15) within WLF-3 (shrub swamp). The poles are wooden and will be direct imbed, with no concrete foundation. No impacts on forested wetlands are proposed.

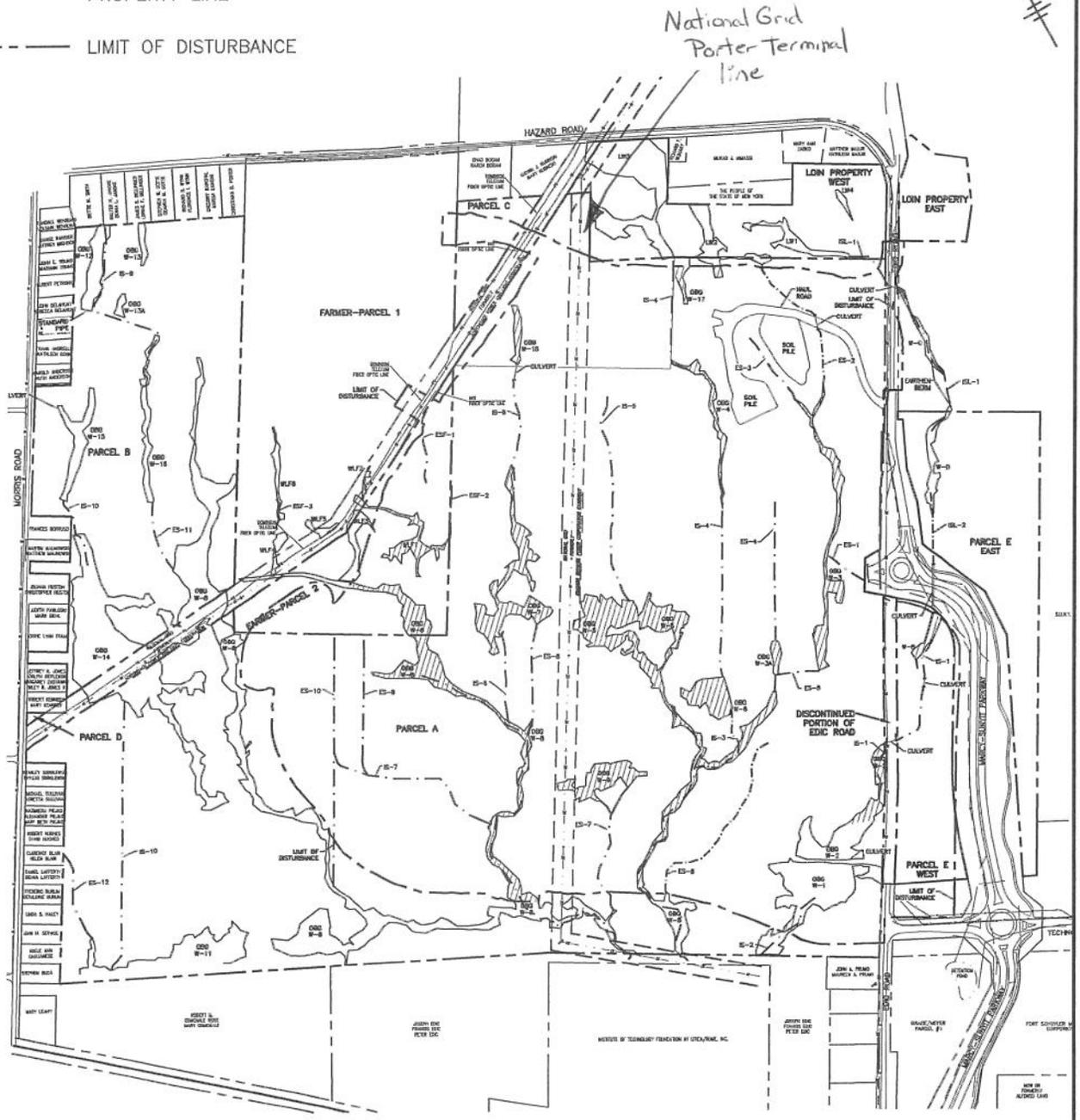
Table 1b. Federal wetland/stream impacts – Oriskany Flats Wildlife Management Area, Marcy, New York.

Wetland/ Stream Lat./Lon.	Total Wetland Acres (ac) / Stream Length Feet (lf)	USACE Jurisdiction	Wet Meadow Affected (ac)	Emergent Marsh Affected (ac)	Shrub Swamp Affected (ac)	Forested Wetland Affected (ac)	Total Area Affected (Acres/lf)	USACE Classification <sup>1</sup>
OFWMA Wetland (forested creation area) 43°10'13.35"N/ 75°19'42.63"W	2.8	Barge Canal / Mohawk River	0.0	0.0	0.0	0.0	0.0	<b>Medium</b> ■ habitat ■ floodwater retention ■ sediment retention
OFWMA Wetland (enhancement area) 43°10'47.74"N/75 °21'22.53"W	58±	Barge Canal / Mohawk River	1.36	0.0	0.0	0.0	1.36	<b>Low</b> ■ floodwater retention ■ sediment retention
OFWMA - Stream enhancement area 43° 10'43.99"N/ 75°21'19.93"W	740	Barge Canal / Mohawk River					135	<b>Intermittent</b>
<b>Totals</b>								
Wetlands	61± ac		1.36	0.0	0.0	0.0	1.36	
Inter. stream	740 lf						135	
Ephem. stream	0.0 lf						0.0	

Notes:

<sup>1</sup>United States Army Corps of Engineers Wetland Functions and Values Classification (September 2002).

- LEGEND**
-  WETLANDS TO REMAIN
  -  WETLAND DISTURBANCE
  -  STREAMS
  -  PROPERTY LINE
  -  LIMIT OF DISTURBANCE



**PLAN**

1"=800'  SCALE: 1"=800'

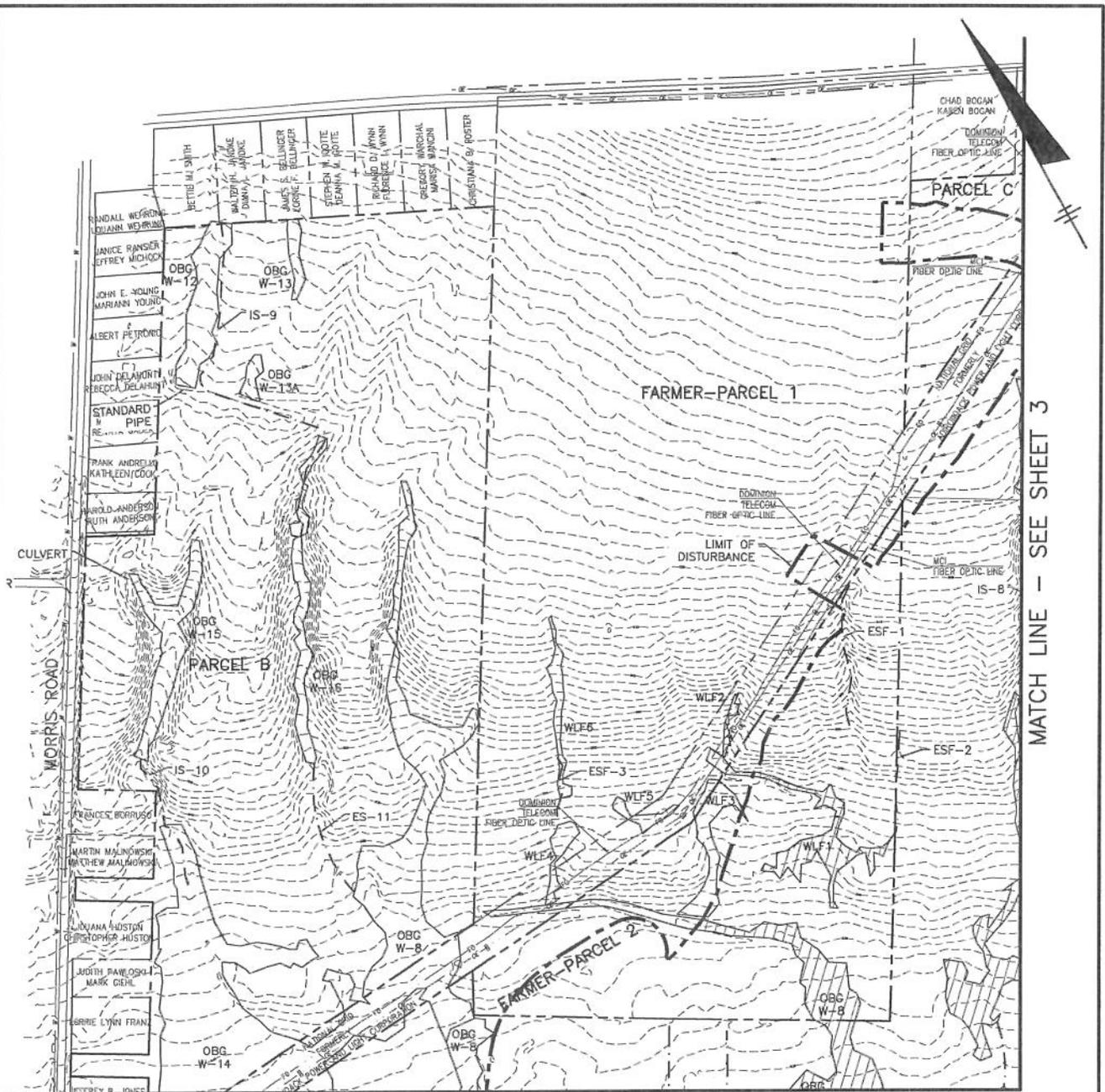
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**MOHAWK VALLEY EDGE  
MARCY NANOCENTER  
MARCY, NEW YORK**

**EXISTING CONDITIONS PLAN**

FILE NO. 10316.50842-005
DATE SEPTEMBER 2013
DWG NO. 1



MATCH LINE - SEE SHEET 4

MATCH LINE - SEE SHEET 3

**PLAN**

SCALE: 1"=400'

**LEGEND**

-  WETLANDS TO REMAIN
-  WETLAND DISTURBANCE
-  STREAMS
-  PROPERTY LINE
-  LIMIT OF DISTURBANCE



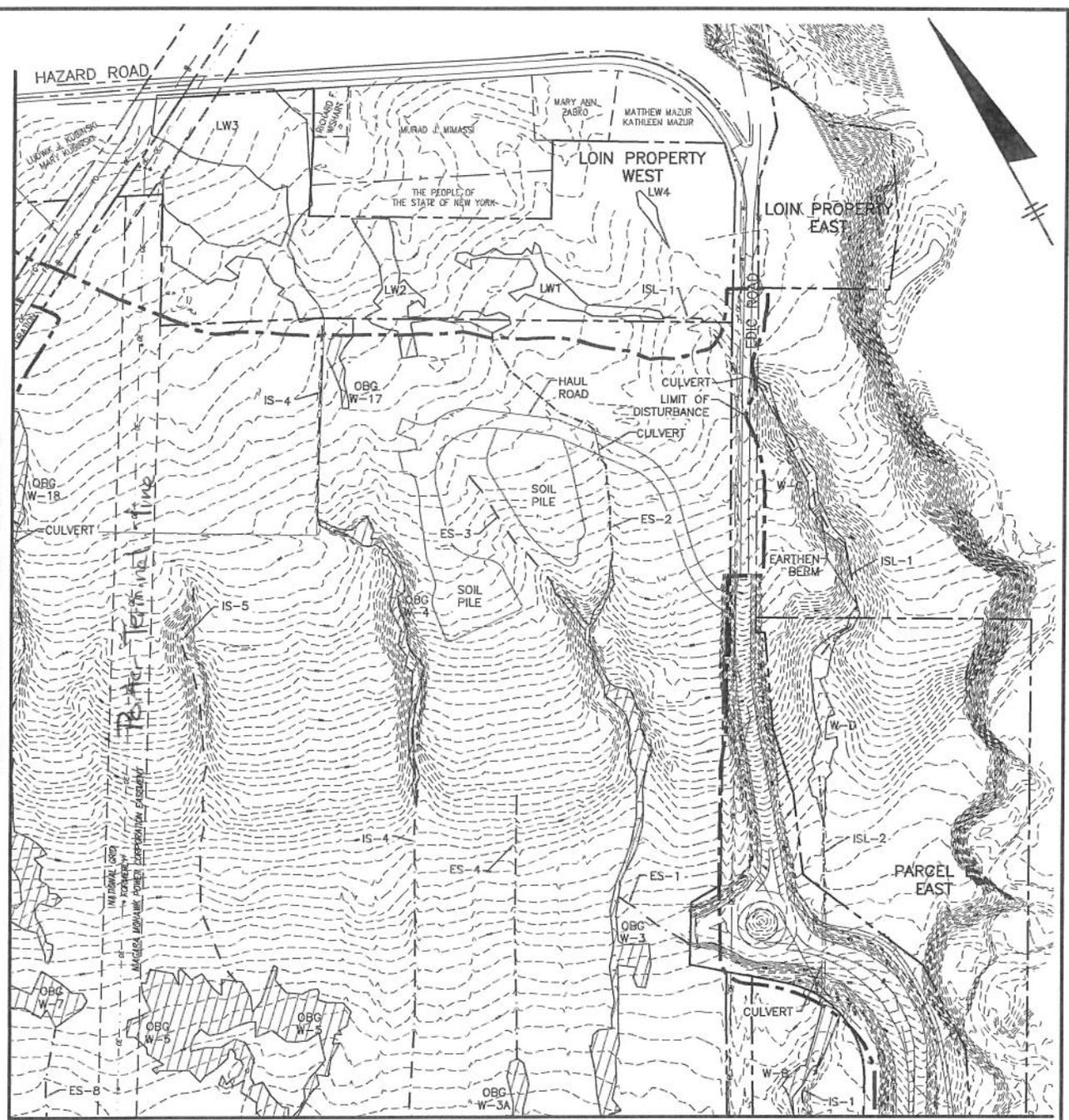
**MOHAWK VALLEY EDGE  
MARCY NANO CENTER  
MARCY, NEW YORK**

**EXISTING CONDITIONS PLAN**

FILE NO. 10316.50842-001
DATE SEPTEMBER 2013
DWG NO. 2

Oct 31, 2013 - 10:04am

MATCH LINE - SEE SHEET 2



MATCH LINE - SEE SHEET 5

### PLAN

SCALE: 1"=400'



### LEGEND

-  WETLANDS TO REMAIN
-  WETLAND DISTURBANCE
-  STREAMS
-  PROPERTY LINE
-  LIMIT OF DISTURBANCE

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Mohawk Valley EDGE  
 USACE #2001-00890 (Public Notice)  
 Oneida County, New York  
 South Trenton, NY Quad  
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MOHAWK VALLEY EDGE  
 MARCY NANO CENTER  
 MARCY, NEW YORK  
 EXISTING CONDITIONS PLAN

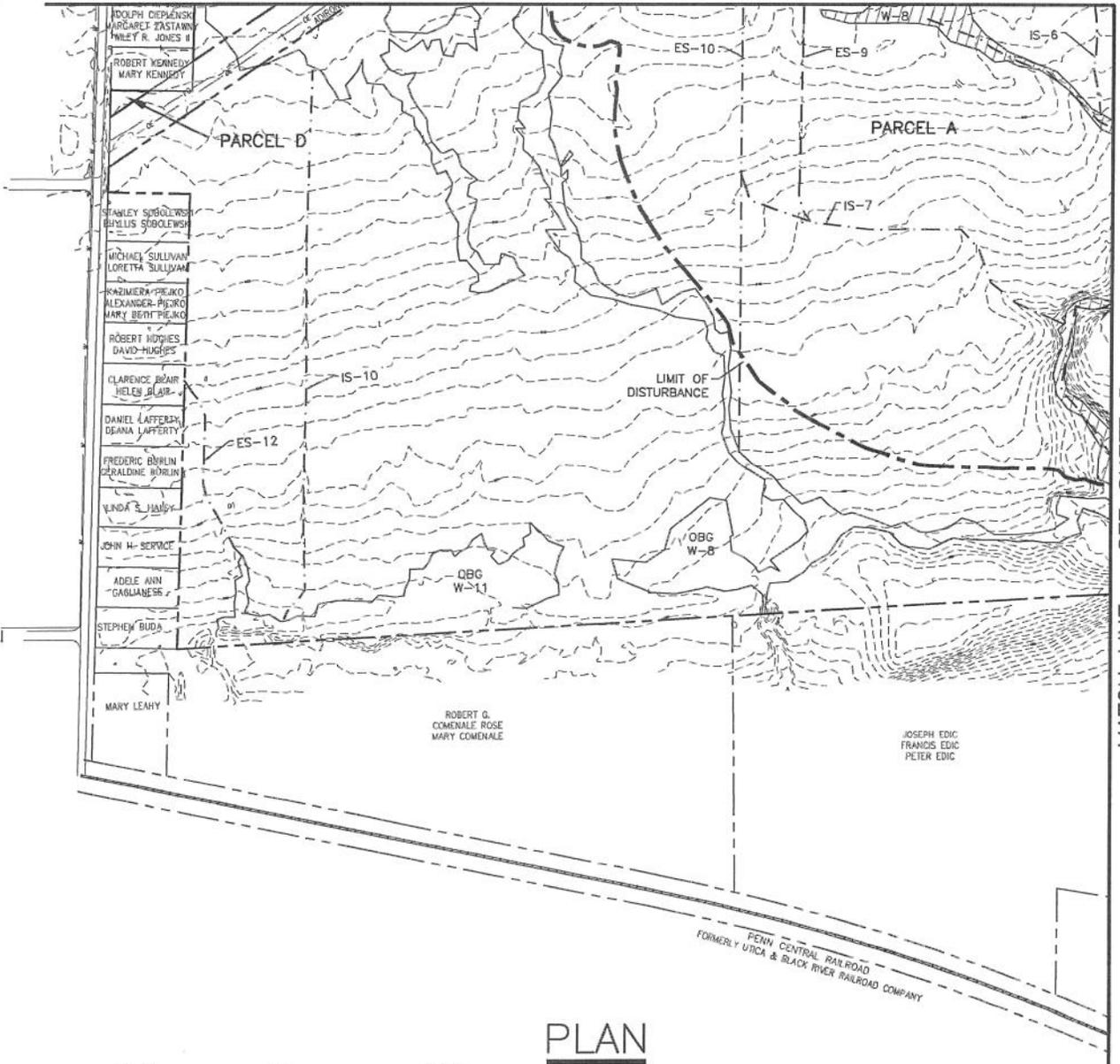
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DATE	SEPTEMBER 2013
DWG NO.	3

Oct 31, 2013 - 10:04am

- LEGEND**
-  WETLANDS TO REMAIN
  -  WETLAND DISTURBANCE
  -  STREAMS
  -  PROPERTY LINE
  -  LIMIT OF DISTURBANCE



MATCH LINE - SEE SHEET 2



MATCH LINE - SEE SHEET 5

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**PLAN**

**MOHAWK VALLEY EDGE  
MARCY NANO CENTER  
MARCY, NEW YORK**

**EXISTING CONDITIONS PLAN**

FILE NO. 10316.50842-003
DATE SEPTEMBER 2013
DWG NO. 4

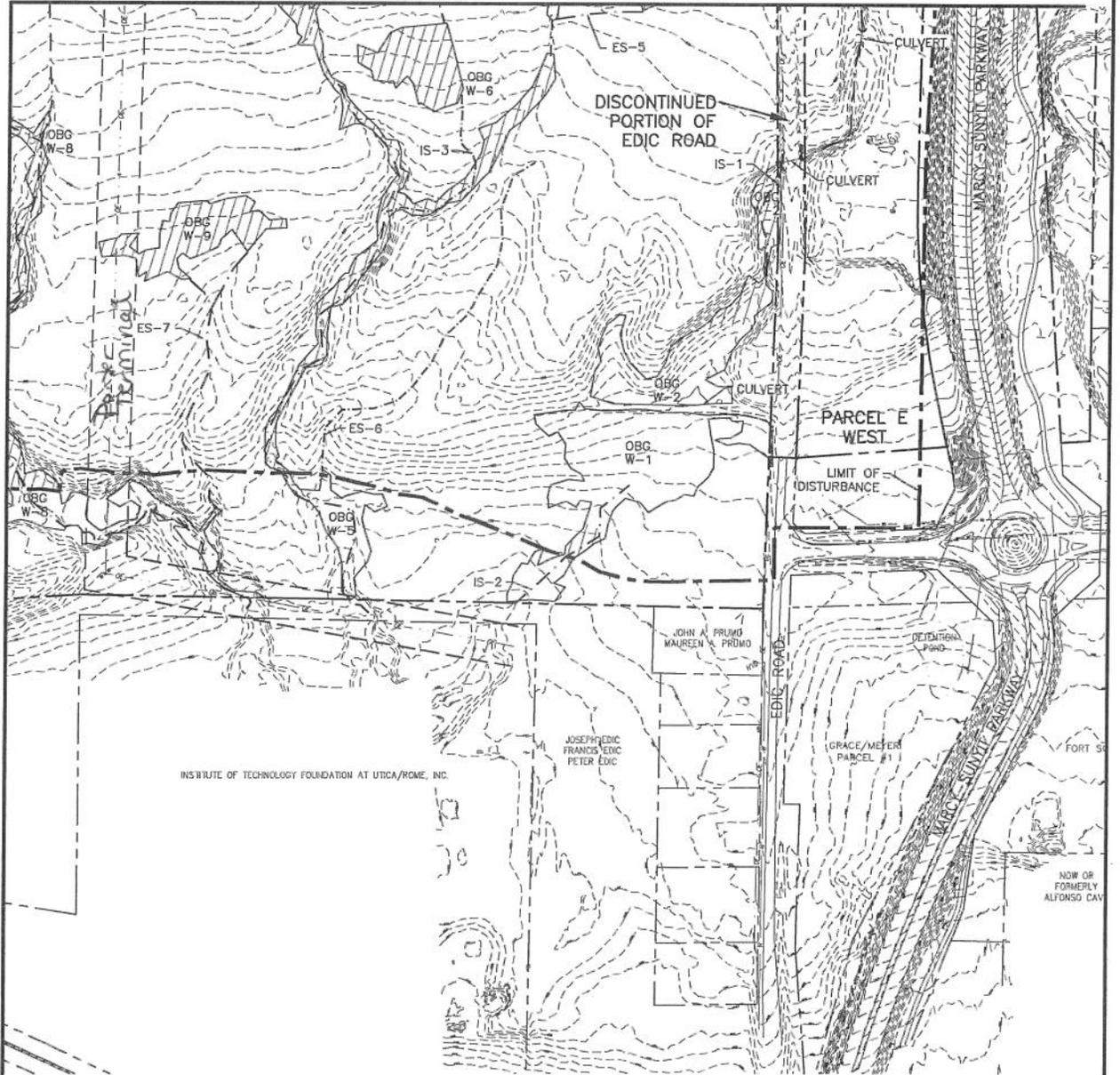
Mohawk Valley EDGE  
USACE #2001-00890 (Public Notice)  
Oneida County, New York  
South Trenton, NY Quad  
Sheet 11 of 23

Oct 31, 2013 - 10:04am

- LEGEND**
-  WETLANDS TO REMAIN
  -  WETLAND DISTURBANCE
  -  STREAMS
  -  PROPERTY LINE
  -  LIMIT OF DISTURBANCE

MATCH LINE - SEE SHEET 3

MATCH LINE - SEE SHEET 4



**PLAN**



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Mohawk Valley EDGE  
 USACE #2001-00890 (Public Notice)  
 Oneida County, New York  
 South Trenton, NY Quad  
 Sheet 12 of 23

**MOHAWK VALLEY EDGE  
 MARCY NANO CENTER  
 MARCY, NEW YORK**

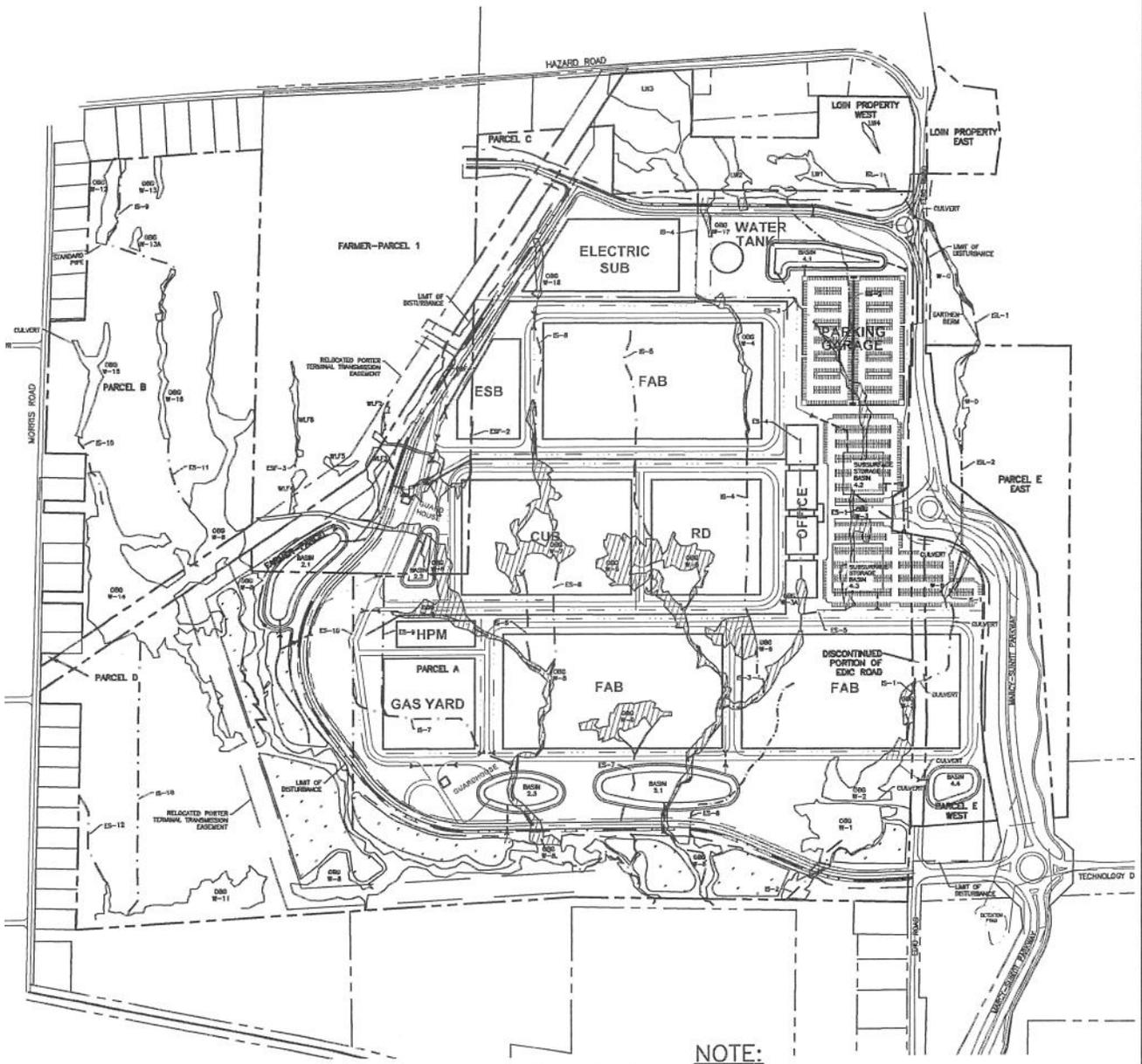
**EXISTING CONDITIONS PLAN**

FILE NO. 10316.50842-004
DATE SEPTEMBER 2013
DWG NO. 5

Oct 31, 2013 - 10:01am

**LEGEND**

	WETLANDS TO REMAIN		PROPERTY LINE
	WETLAND DISTURBANCE		LIMIT OF DISTURBANCE
	POTENTIAL WETLAND MITIGATION AREA		STREAMS
			DRAINAGE CONVEYANCE
			STORM SEWER



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**PLAN**

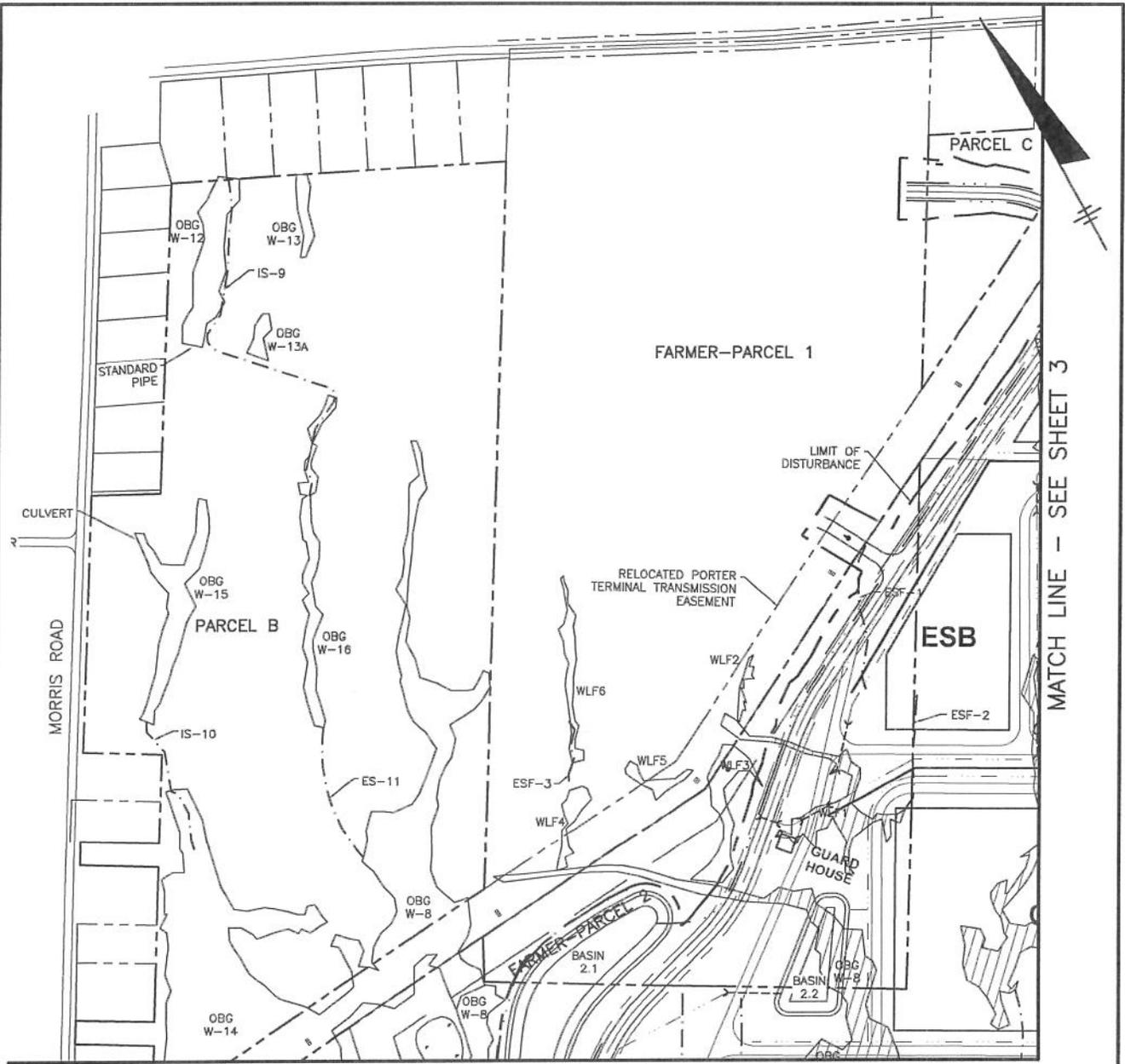
SCALE: 1"=800'

**NOTE:** LIMIT OF DISTURBANCE LINE IS REPRESENTATIVE OF THE MARCY NANOCENTER SITE CONSTRUCTION AND DOES NOT INCLUDE POTENTIAL WETLAND MITIGATION AREAS.

Mohawk Valley EDGE  
 USACE #2001-00890 (Public Notice)  
 Oneida County, New York  
 South Trenton, NY Quad  
 Sheet 13 of 23

**MOHAWK VALLEY EDGE  
 MARCY NANOCENTER  
 MARCY, NEW YORK  
 DEVELOPMENT PLAN**

FILE NO. 10316.50842-005
DATE SEPTEMBER 2013
DWG NO. 1



MATCH LINE - SEE SHEET 4

### PLAN



SCALE: 1"=400'

#### LEGEND

- |   |                                   |  |                      |
|---|-----------------------------------|--|----------------------|
|  | WETLANDS TO REMAIN                |  | PROPERTY LINE        |
|  | WETLAND DISTURBANCE               |  | LIMIT OF DISTURBANCE |
|  | POTENTIAL WETLAND MITIGATION AREA |  | STREAMS              |
|   |                                   |  | DRAINAGE CONVEYANCE  |
|   |                                   |  | STORM SEWER          |

Mohawk Valley EDGE  
 USACE #2001-00890 (Public Notice)  
 Oneida County, New York  
 South Trenton, NY Quad  
 Sheet 14 of 23

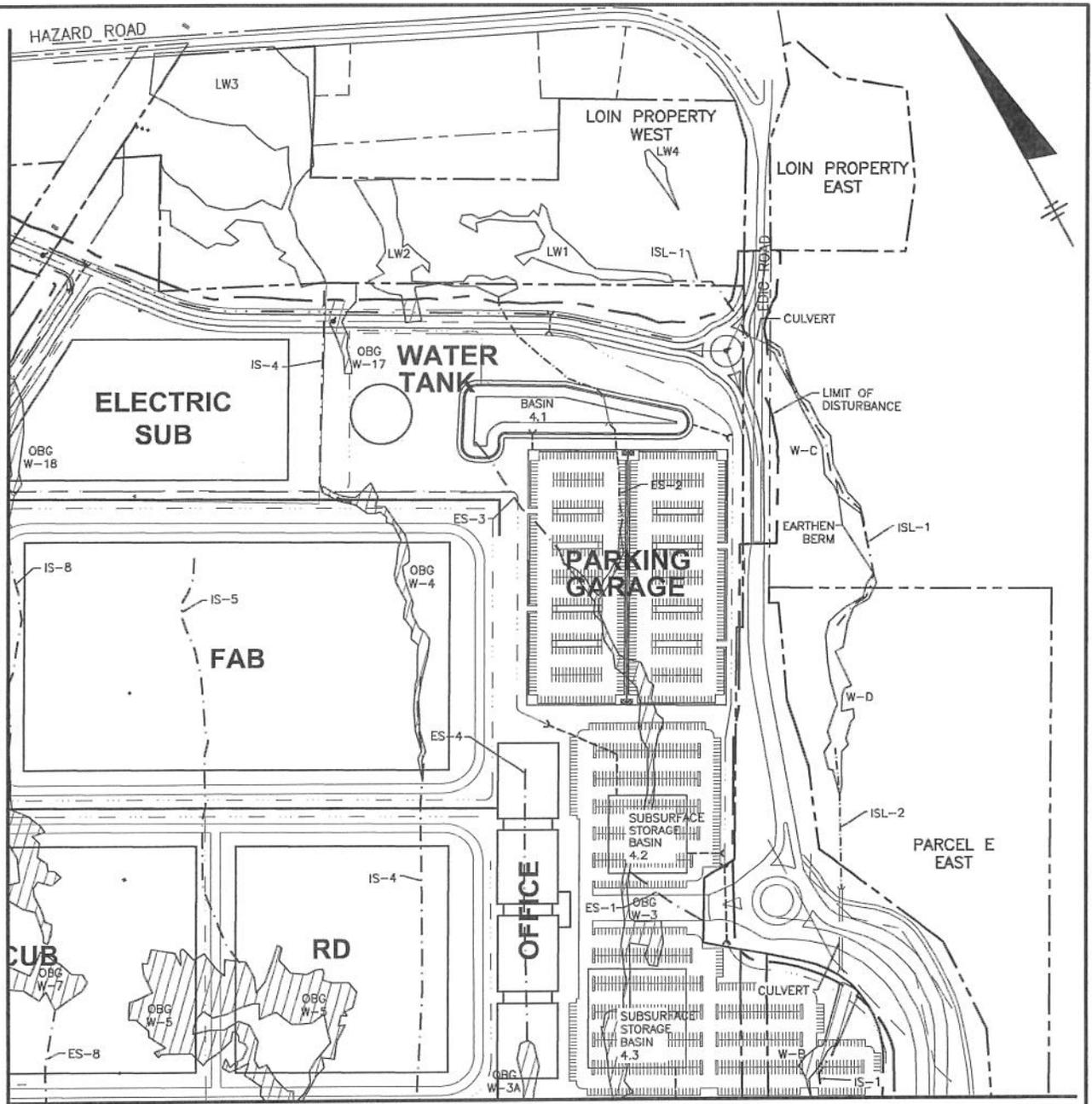
MOHAWK VALLEY EDGE  
 MARCY NANOCENTER  
 MARCY, NEW YORK  
 DEVELOPMENT PLAN

FILE NO. 10316.50842-001
DATE SEPTEMBER 2013
DWG NO. 2

Oct 31, 2013 - 10:01am

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MATCH LINE - SEE SHEET 2



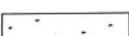
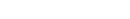
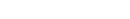
MATCH LINE - SEE SHEET 5

### PLAN



SCALE: 1"=400'

#### LEGEND

-  WETLANDS TO REMAIN
-  WETLAND DISTURBANCE
-  POTENTIAL WETLAND MITIGATION AREA
-  PROPERTY LINE
-  LIMIT OF DISTURBANCE
-  STREAMS
-  DRAINAGE CONVEYANCE
-  STORM SEWER

Mohawk Valley EDGE  
 USACE #2001-00890 (Public Notice)  
 Oneida County, New York  
 South Trenton, NY Quad  
 Sheet 15 of 23

MOHAWK VALLEY EDGE  
 MARCY NANOCENTER  
 MARCY, NEW YORK

DEVELOPMENT PLAN

FILE NO.  
 10316.50842-002

DATE  
 SEPTEMBER 2013

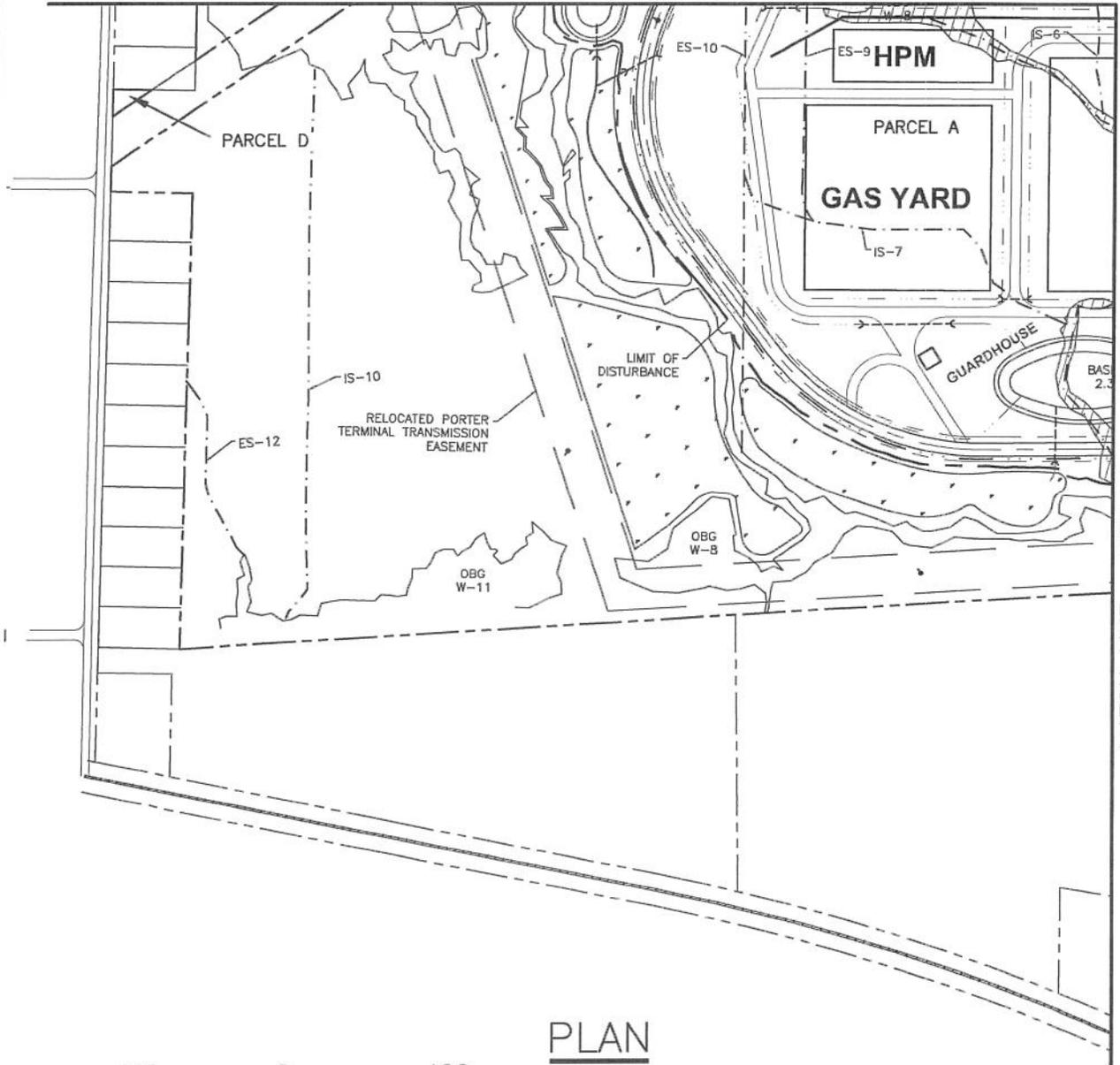
DWG NO.  
 3

Oct 31, 2013 - 10:01am

- LEGEND**
-  WETLANDS TO REMAIN
  -  WETLAND DISTURBANCE
  -  POTENTIAL WETLAND MITIGATION AREA
  -  PROPERTY LINE
  -  LIMIT OF DISTURBANCE
  -  STREAMS
  -  DRAINAGE CONVEYANCE
  -  STORM SEWER



MATCH LINE - SEE SHEET 2



MATCH LINE - SEE SHEET 5

**PLAN**



SCALE: 1"=400'

Mohawk Valley EDGE  
 USACE #2001-00890 (Public Notice)  
 Oneida County, New York  
 South Trenton, NY Quad  
 Sheet 16 of 23

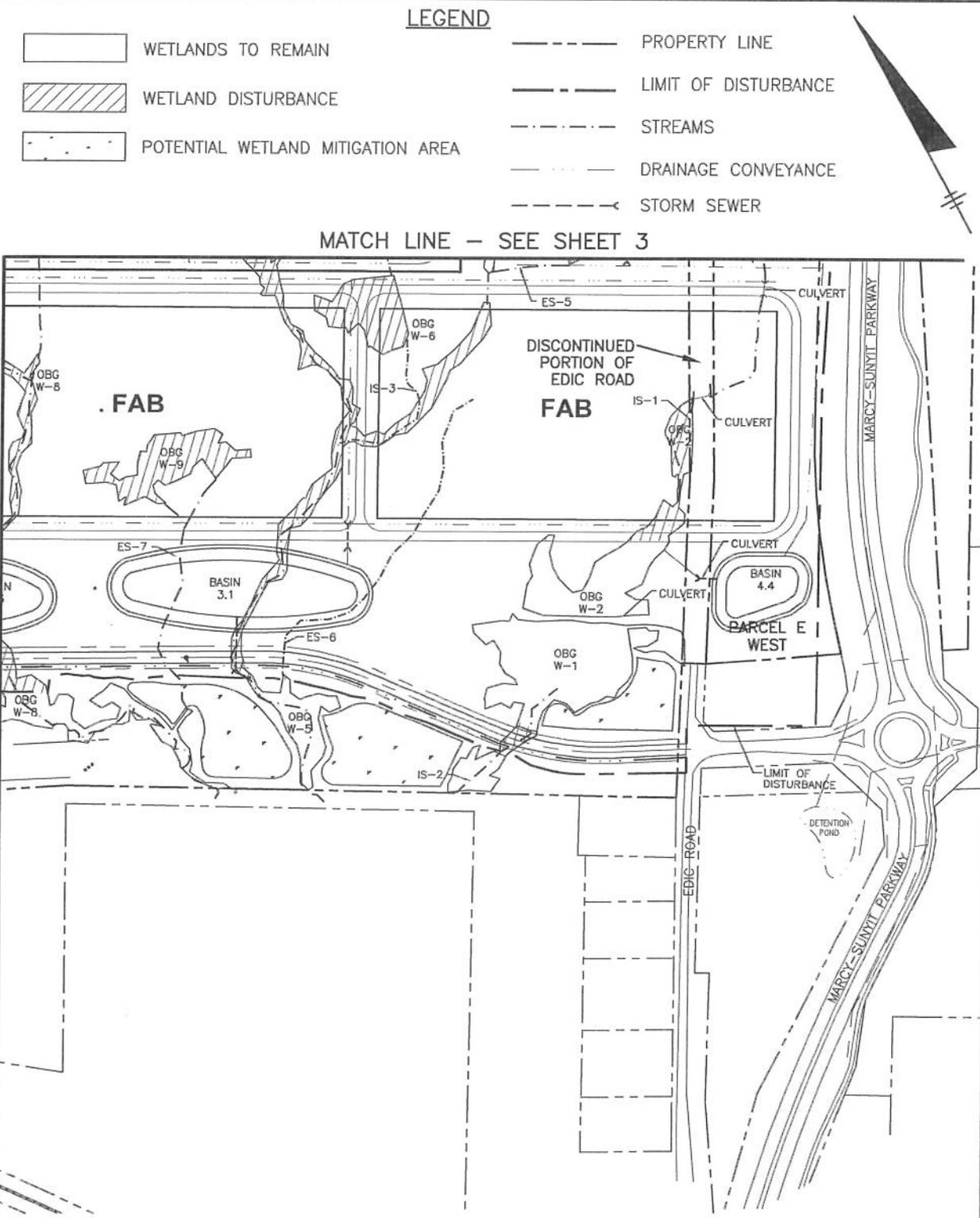
MOHAWK VALLEY EDGE  
 MARCY NANOCENTER  
 MARCY, NEW YORK  
 DEVELOPMENT PLAN

FILE NO.	10316.50842-003
DATE	SEPTEMBER 2013
DWG NO.	4

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MATCH LINE - SEE SHEET 4

MATCH LINE - SEE SHEET 3



**PLAN**

1"=400' 400 0 400 SCALE: 1"=400'

**MOHAWK VALLEY EDGE  
MARCY NANOCENTER  
MARCY, NEW YORK**

**DEVELOPMENT PLAN**

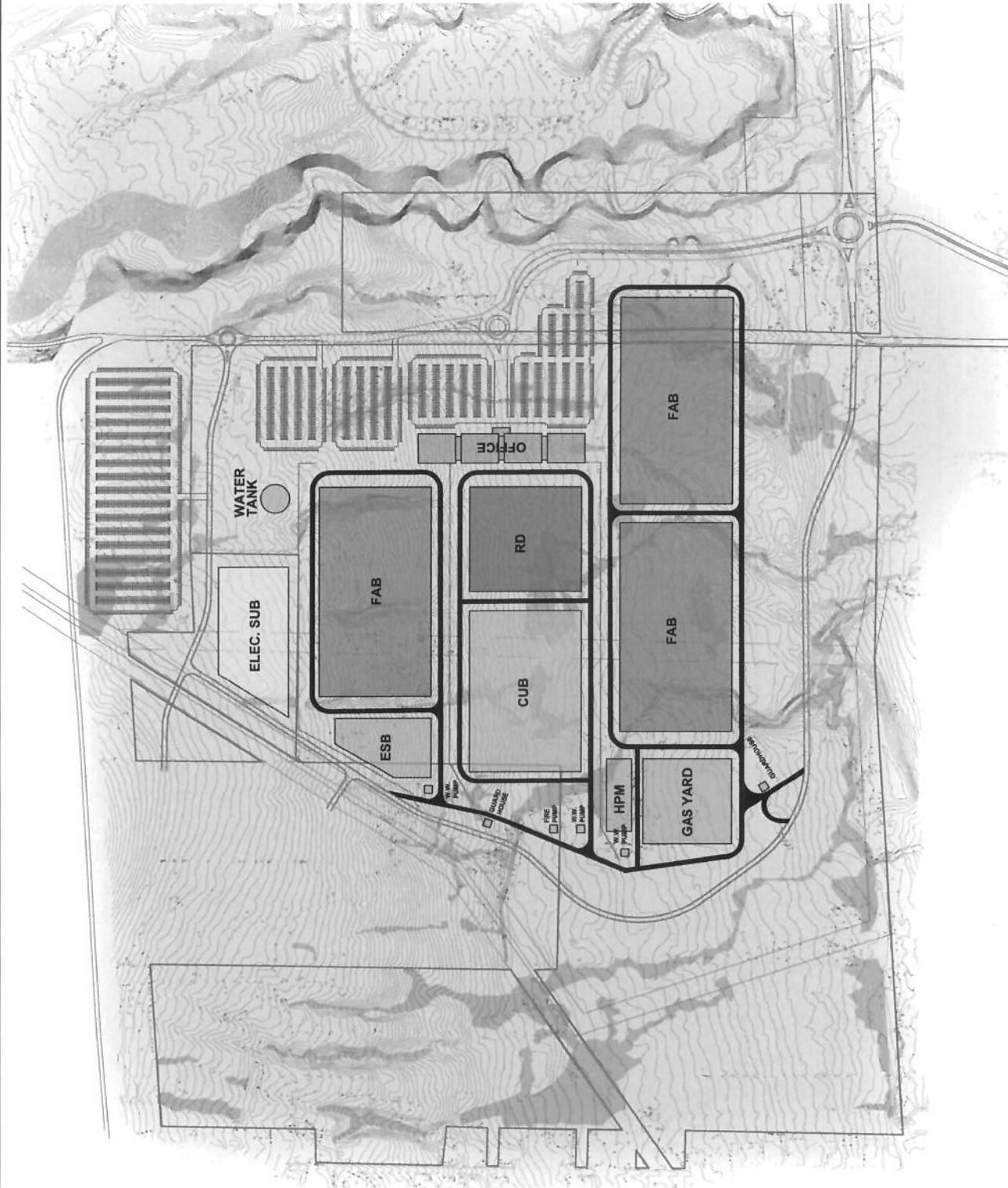
FILE NO.  
10316.50842-004

DATE  
SEPTEMBER 2013

DWG NO.  
5

	450MMI FABRICATION PLANT
	OFFICE/ ADMINISTRATION BUILDING
	RESEARCH & DEVELOPMENT CENTER
	SUPPORT BUILDINGS
	CENTRAL UTILITY BUILDINGS
	SUBSTATION
	PARKING
	EXISTING WETLANDS
	PROPERTY BOUNDARY
	SECURITY FENCE
	RETAINING WALL
	NATIONAL GRID RIGHT OF WAY

*Wetland Impact = 17ac*



Auburn Field Office  
Received

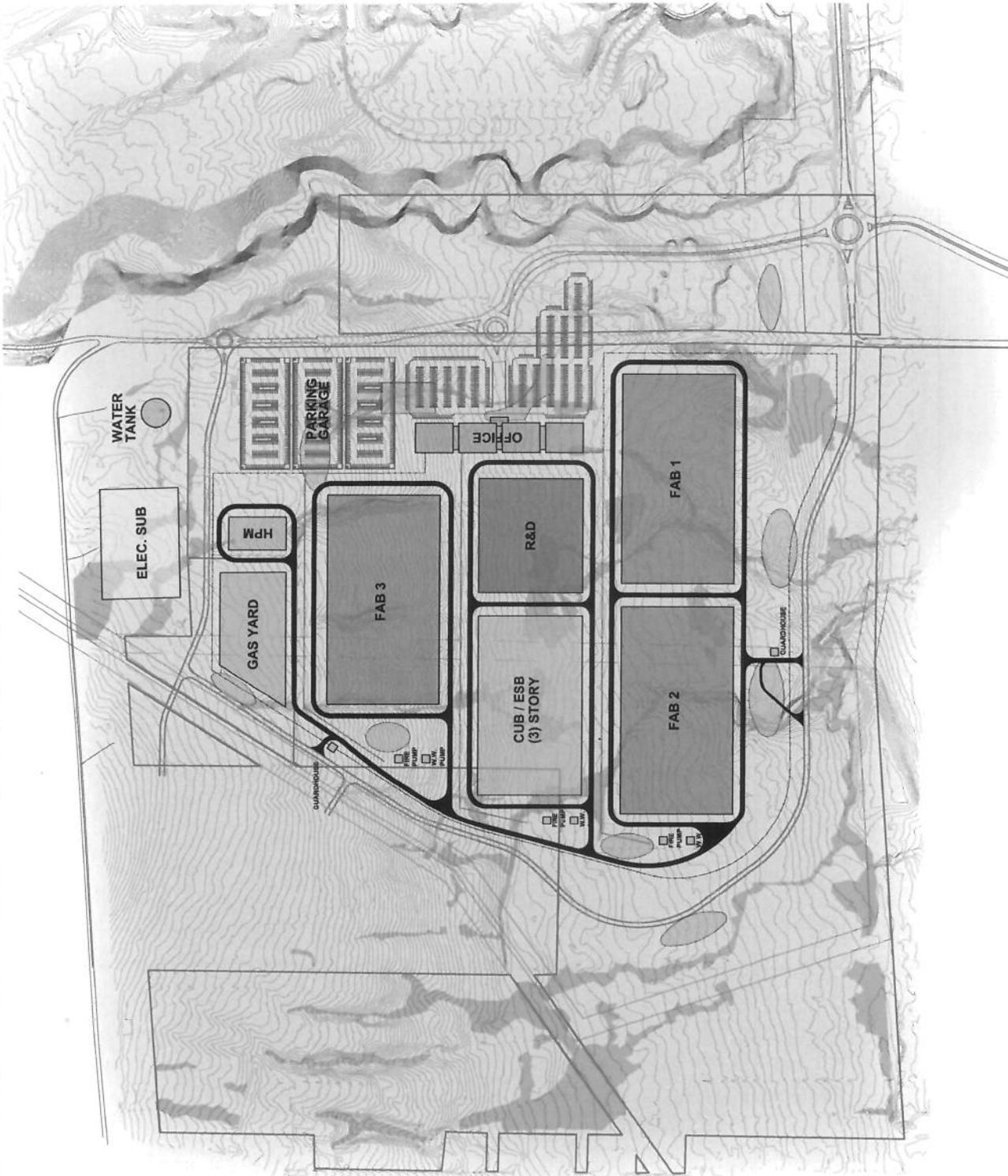
OCT 04 2013

**USAC** Mohawk Valley EDGE  
 USACE #2001-00890 (Public Notice)  
 Oneida County, New York  
 South Trenton, NY Quad  
 Sheet 18 of 23

MARCY NANOCENTER RING ROAD DEVELOPMENT  
 OPTION 1B



CLIENT: MOHAWK VALLEY  
 PROJECT: MARCY NANOCENTER RING ROAD DEVELOPMENT  
 OWNER: USACE  
 ARCHITECT: ENGINEERS OF RECORD  
 W. W. GILBERT, P.E.  
 1000 STATE ST. 10TH FLOOR  
 ALBANY, NY 12207  
 518.862.1111



	450MM FABRICATION PLANT
	OFFICE/ ADMINISTRATION BUILDING
	RESEARCH & DEVELOPMENT CENTER
	SUPPORT BUILDINGS
	CENTRAL UTILITY BUILDINGS
	SUBSTATION
	PARKING
	EXISTING WETLANDS
	PROPERTY BOUNDARY
	SECURITY FENCE
	RETAINING WALL
	NATIONAL GRID RIGHT OF WAY

*Wetland Impact = ~ 14.7 ac.*

Mohawk Valley EDGE  
 USACE #2001-00890 (Public Notice)  
 Oneida County, New York  
 South Trenton, NY Quad  
 Sheet 19 of 23

CLIENT: MORGAN VALLEY  
**EDGE**  
 MORGAN VALLEY  
 1000 W. STATE ST.  
 SOUTH TRENTON, NY 12150  
 PH: 518.338.3333

PROJECT: MARCY NANOCENTER RING ROAD DEVELOPMENT  
 DESIGNER: MORGAN VALLEY  
 ARCHITECT / ENGINEER OF RECORD: MORGAN VALLEY ARCHITECTS P.C.  
 1000 W. STATE ST.  
 SOUTH TRENTON, NY 12150  
 PH: 518.338.3333

MARCY NANOCENTER RING ROAD DEVELOPMENT  
 OPTION 1C

Table 1. Types of Mitigation (Areal)

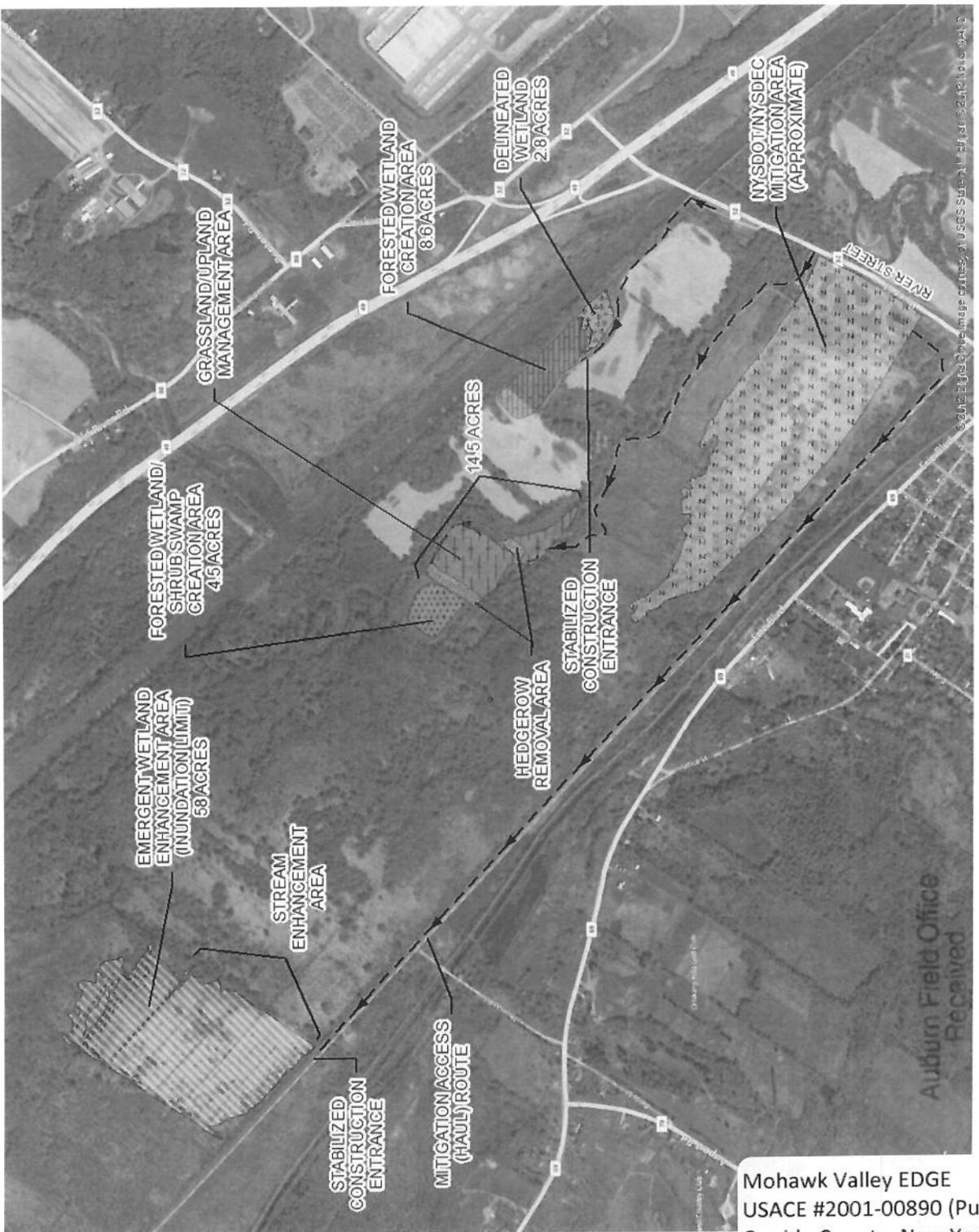
Component	Mitigation Type	In-Kind (✓)	Acreage (Credits)	Objective (Function)
Forested Wetland (WMA site)	■ Wetland Creation	✓	12.1	<ul style="list-style-type: none"> <li>■ Habitat</li> <li>■ floodwater/storm water retention</li> <li>■ sediment retention</li> <li>■ nutrient and toxicant storage/retention/filtration</li> </ul>
Shrub Wetland (WMA site)	■ Wetland Creation	✓	1.0	<ul style="list-style-type: none"> <li>■ Habitat</li> <li>■ floodwater/storm water retention</li> <li>■ sediment retention</li> <li>■ nutrient and toxicant storage/retention/filtration</li> </ul>
EW/WM Wetland (WMA site)	■ Wetland Enhancement	✓	58	<ul style="list-style-type: none"> <li>■ Habitat</li> <li>■ floodwater/storm water retention</li> <li>■ sediment retention</li> <li>■ nutrient and toxicant storage/retention/filtration</li> </ul>
Forested Wetland / Shrub / EM/WM (Nanocenter site)	■ Wetland Creation	✓	13	<ul style="list-style-type: none"> <li>■ Habitat</li> <li>■ floodwater/storm water retention</li> <li>■ sediment retention</li> <li>■ nutrient and toxicant storage/retention/filtration</li> <li>■ drainage to high quality wetland</li> </ul>
Stream IS-9 (Nanocenter site)	■ Stream Enhancement	✓	616 feet	<ul style="list-style-type: none"> <li>■ Habitat</li> <li>■ sediment retention/removal</li> <li>■ floodwater/storm water retention</li> <li>■ nutrient and toxicant storage/retention/filtration</li> <li>■ drainage to high quality wetland</li> </ul>
<i>In-lieu Fee</i>	■ Credit Purchase		TBD	<ul style="list-style-type: none"> <li>■ Habitat</li> <li>■ sediment retention/removal</li> <li>■ floodwater/storm water retention</li> <li>■ nutrient and toxicant storage/retention/filtration</li> <li>■ drainage to high quality wetland</li> </ul>
Northwestern Stream (WMA site)	■ Stream Enhancement	✓	740 feet	<ul style="list-style-type: none"> <li>■ Habitat</li> <li>■ sediment retention/removal</li> <li>■ nutrient and toxicant storage/retention/filtration</li> <li>■ drainage to high quality</li> </ul>

Component	Mitigation Type	In-Kind (✓)	Acreage (Credits)	Objective (Function)
				wetland
Site drainage features (Nanocenter site)	■ Stream replacement – diverted around developed portion of site	✓	TBD	<ul style="list-style-type: none"> <li>■ Habitat</li> <li>■ sediment retention/removal</li> <li>■ floodwater/storm water retention</li> <li>■ nutrient and toxicant storage/retention/filtration</li> <li>■ drainage to high quality wetland</li> </ul>
Site drainage features (Nanocenter site)	■ Stream replacement – on-site stormwater system	✓	TBD	<ul style="list-style-type: none"> <li>■ sediment retention/removal</li> <li>■ floodwater/storm water retention</li> <li>■ nutrient and toxicant storage/retention/filtration</li> <li>■ drainage to high quality wetland</li> </ul>
Upland/grassland Management (WMA site)	<ul style="list-style-type: none"> <li>■ Restoration</li> <li>■ Enhancement</li> </ul>		14.5	<ul style="list-style-type: none"> <li>■ Habitat</li> </ul>
Wetland Protective Covenants (Nanocenter site)	■ Preservation	✓	25±	<ul style="list-style-type: none"> <li>■ habitat</li> <li>■ sediment retention/removal</li> <li>■ floodwater/storm water retention</li> <li>■ nutrient and toxicant storage/retention/filtration</li> <li>■ drainage to high quality wetland</li> <li>■ groundwater discharge</li> </ul>
Upland Buffer Protective Covenants (Nanocenter site)	■ Preservation	✓	TBD	<ul style="list-style-type: none"> <li>■ habitat</li> <li>■ sediment retention/removal</li> <li>■ floodwater/storm water retention</li> <li>■ nutrient and toxicant storage/retention/filtration</li> <li>■ drainage to high quality wetland</li> <li>■ groundwater discharge</li> </ul>
Stream Protective Covenants (Nanocenter site)	■ Preservation	✓	5,500± feet	<ul style="list-style-type: none"> <li>■ habitat</li> <li>■ sediment retention/removal</li> <li>■ floodwater/storm water retention</li> <li>■ nutrient and toxicant storage/retention/filtration</li> <li>■ drainage to high quality wetland</li> <li>■ groundwater discharge</li> </ul>

TBD - to be determined

Approximately 26.1 acres of existing successional old field and agricultural land habitat will be converted to forested and shrub wetland (13.1 acres at the Oriskany Flats WMA and 13 acres at the

Nanocenter site) and approximately 58 acres of successional old field/degraded emergent wetland will be enhanced through inundation by the placement of grass-covered earthen berms and ditch plugs on existing drainage ditches with water level control structures. This will result in an approximate replacement ratio for all wetland types of 2:1 (*i.e.*, 2 acres of created wetland to every 1 acre of impacted wetland). This ratio does not include the proposed enhancement of approximately 58 acres at the WMA. By incorporating the enhancement area into the replacement ratio, an approximate replacement ratio of 5.9:1 is achieved with the mitigation project. Also, it is anticipated that the wetland creation design or the mitigation at the Nanocenter site will include a higher ratio of forested wetlands which will increase the ratio of forested wetland mitigation area to greater than 2:1.



- LEGEND**
- MITIGATION ACCESS (HAULY) ROUTE
  - ▭ NYS DOT/NYS DEC MITIGATION AREA (APPROXIMATE)
  - ▭ DELINEATED WETLAND
  - ▭ EMERGENT WETLAND ENHANCEMENT AREA (INUNDATION LIMIT)
  - ▭ FORESTED WETLAND CREATION AREA
  - ▭ FORESTED WETLAND SHRUB SWAMP CREATION AREA
  - ▭ GRASSLAND/UPLAND MANAGEMENT AREA
  - ▭ HEDGEROW REMOVAL AREA



MOHAWK VALLEY EDGE  
 ORISKANY FLATS WMA  
 ORISKANY FLATS, NEW YORK

**WMA MITIGATION  
 PLAN COMPONENTS**



SEPTEMBER 2013  
 1031510082



was developed in color. Reproduction in B&W may not represent the data as intended.

OCT 04 2013

USACE

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